IN THE CLAIMS:

1. (Previously Presented) An active energy ray-curable organopolysiloxane resin composition comprising:

(A) 100 parts by weight of an epoxy-containing organopolysiloxane resin represented by the following siloxane unit formula (1):

$$(R^{1}R^{2}R^{3}SiO_{1/2})_{a}(R^{4}R^{5}SiO_{2/2})_{b}(R^{6}SiO_{3/2})_{c}(SiO_{4/2})_{d}$$
 (1)

where R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are organic groups selected from univalent aliphatic hydrocarbon groups with 1 to 6 carbon atoms, univalent aromatic hydrocarbon groups with 6 to 10 carbon atoms, and epoxy-containing univalent hydrocarbon groups, wherein in one molecule the siloxane units with epoxy-containing univalent hydrocarbon groups constitute 2 to 50 mole%, the univalent aromatic hydrocarbon groups with 6 to 10 carbon atoms constitute more than 15 mole% of all organic groups, and where the following conditions are satisfied: a+b+c+d=1; "a" on average satisfies the following condition; $0 \le a < 0.4$; "b" on average satisfies the following condition; 0 < c < 1; "d" on average satisfies the following condition; $0 \le d < 0.4$; "b" and "c" are bound by the following condition; $0.01 \le b/c \le 0.3$; and wherein the total content of alkoxy groups and hydroxyl groups on silicon atoms of the epoxy-containing organopolysiloxane resin is no more than 2 mole % of all substituents on silicon atoms;

(B) 0.05 to 20 parts by weight of a photopolymerization initiator; and

(C) 0 to 5000 parts by weight of an organic solvent.

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2. (Original) The active energy ray-curable organopolysiloxane resin composition according to

Claim 1 for use as a cured body in the form of a film.

3. (Original) The active energy ray-curable organopolysiloxane resin composition according to

Claim 1 for use as a light-transmitting component.

4. (Previously Presented) The active energy ray-curable organopolysiloxane resin composition

according to Claim 3, wherein said light-transmitting component is an optical waveguide.

5. (Previously Presented) The active energy ray-curable organopolysiloxane resin composition

according to Claim 1, wherein said active-energy rays are ultraviolet rays.

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6. (Previously Presented) A light-transmitting component obtained by curing (A) an epoxy-containing organopolysiloxane resin represented by the following siloxane unit formula (1):

$$(R^{1}R^{2}R^{3}SiO_{1/2})_{a} (R^{4}R^{5}SiO_{2/2})_{b} (R^{6}SiO_{3/2})_{c} (SiO_{4/2})_{d}$$
 (1)

where R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are organic groups selected from univalent aliphatic hydrocarbon groups with 1 to 6 carbon atoms, univalent aromatic hydrocarbon groups with 6 to 10 carbon atoms, and epoxy-containing univalent hydrocarbon groups, wherein in one molecule the siloxane units with epoxy-containing univalent hydrocarbon groups constitute 2 to 50 mole%, the univalent aromatic hydrocarbon groups with 6 to 10 carbon atoms constitute more than 15 mole% of all organic groups, and where the following conditions are satisfied: a+b+c+d=1; "a" on average satisfies the following condition; $0 \le a < 0.4$; "b" on average satisfies the following condition; 0 < c < 1; "d" on average satisfies the following condition; $0 \le d < 0.4$; "b" and "c" are bound by the following condition; $0.01 \le b/c \le 0.3$; and wherein the total content of alkoxy groups and hydroxyl groups on silicon atoms of the epoxy-containing organopolysiloxane resin is no more than 2 mole % of all substituents on silicon atoms under effect of irradiation with active energy rays in the presence of (B) a photopolymerization initiator where component (B) is used in an amount of 0.05 to 20 parts by weight for each 100 parts by weight of component (A).

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7. (Original) The light-transmitting component according to Claim 6, wherein said light-

transmitting component is an optical waveguide.

8. (Currently Amended) The light-transmitting component according to Claim [[6]]7, wherein

said optical waveguide is made in the form of a film.

9. (Original) The light-transmitting component according to Claim 6, wherein said active-

energy rays are ultraviolet rays.

10. (Original) A method of manufacturing a light-transmitting component, comprising the steps

of: applying the active energy ray-curable organopolysiloxane resin composition of Claim 1 onto

a substrate; and curing the applied composition by irradiating it with active-energy rays.

11. (Previously Presented) A method of manufacturing an optical waveguide, comprising the

steps of: 1) forming a lower cladding layer by applying the active energy ray-curable

organopolysiloxane resin composition of Claim 1 onto a substrate and by curing the applied

material by irradiating it with active-energy rays; 2) forming a core layer by applying the active

energy ray-curable organopolysiloxane resin composition of Claim 1 onto the lower cladding

layer and by curing the applied layer by irradiating it with active energy rays; optionally,

processing the core layer into a desired shape; and 3) forming an upper cladding layer by

applying the active energy ray-curable organopolysiloxane resin composition of Claim 1 onto the

core layer, and curing the applied material by irradiating it with active-energy rays.

12. (Previously Presented) The method of manufacturing an optical waveguide according to Claim 11, wherein the refractive index of the cured body is greater than the refractive index of the cladding layer.

13. (Previously Presented) The active energy ray-curable organopolysiloxane resin composition according to Claim 1, wherein the epoxy-containing organopolysiloxane resin represented by the siloxane unit formula (1) is selected from the group of organopolysiloxane resins composed of $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(E^1SiO_{3/2})$ and $(SiO_{4/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(MeSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; (MePhSiO_{2/2}), (PhSiO_{3/2}), and (E¹SiO_{3/2}) units; (Me₂SiO_{2/2}), (PhSiO_{3/2}), and (E²SiO_{3/2}) units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, and $(E^1SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^4SiO_{3/2})$ units; (MeViSiO_{2/2}), (PhSiO_{3/2}), and (E³SiO_{3/2}) units; (Me₂SiO_{2/2}), (PhSiO_{3/2}), (MeSiO_{3/2}), and $(E^3SiO_{3/2})$ units; $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2ViSiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(E^3SiO_{3/2})$, and (SiO_2) units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, $(E^1SiO_{3/2})$, and (SiO_2) units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2}), (E^1SiO_{3/2}), and (SiO_2) units; and <math>(Me_3SiO_{1/2}), (Me_2SiO_{2/2}), (PhSiO_{3/2}), (E^3SiO_{3/2}), and$ (SiO₂) units; wherein Me designates a methyl group, Vi designates a vinyl group, Ph designates a designates a phenyl group, E¹ designates a 3-(glycidoxy)propyl group, E²

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(glycidoxycarbonyl)propyl group, E³ designates a 2-(3,4-epoxycyclohexyl)ethyl group, and E⁴ designates 2-(4-methyl-3,4-epoxycyclohexyl) propyl group.

14. (Previously Presented) The light-transmitting component according to Claim 6, wherein the epoxy-containing organopolysiloxane resin represented by the siloxane unit formula (1) is selected from the group of organopolysiloxane resins composed of (Me₂SiO_{2/2}), (PhSiO_{3/2}), and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2}), (E^1SiO_{3/2}) \text{ and } (SiO_{4/2}) \text{ units; } (Me_2SiO_{2/2}), (PhSiO_{3/2}), (MeSiO_{3/2}), \text{ and } (E^1SiO_{3/2})$ units; $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(MePhSiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^2SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, and $(E^1SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^4SiO_{3/2})$ units; $(MeViSiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(MeSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2ViSiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Ph_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^1SiO_{3/2})$ units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, and $(E^3SiO_{3/2})$ units; $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(E^3SiO_{3/2})$, and (SiO_2) units; $(Me_2SiO_{2/2})$, $(Ph_2SiO_{2/2})$, $(E^1SiO_{3/2})$, and (SiO_2) units; $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(E^1SiO_{3/2})$, and (SiO_2) units; and $(Me_3SiO_{1/2})$, $(Me_2SiO_{2/2})$, $(PhSiO_{3/2})$, $(E^3SiO_{3/2})$, and (SiO_2) units; wherein Me designates a methyl group, Vi designates a vinyl group, Ph designates a phenyl group, E¹ designates a 3-(glycidoxy)propyl group, E² designates a 2-(glycidoxycarbonyl)propyl group, E³ designates a 2-(3,4epoxycyclohexyl)ethyl group, and E⁴ designates 2-(4-methyl-3,4-epoxycyclohexyl) propyl group.

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